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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/174,042	10/16/1998	JURGEN HIRATH	ZTP-97-P-413	5077

7590

06/18/2002

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EXAMINER

ANDERSON, GERALD A

ART UNIT	PAPER NUMBER
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3637

DATE MAILED: 06/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/174,042

Applicant(s)

HIRATH ET AL.

Examiner

JERRY A ANDERSON

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 13 and 14 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____
- ☐ Interview Summary (PTO-413) Paper No(s) ____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION***Response to Arguments***

Applicant's arguments filed March 27, 2002 have been fully considered but they are not persuasive. The applicant argues that Comstock requires a pump to evacuate the space which is enclosed by the structure and that this space does not constitute an evacuated space enclosed by two layers and a connecting profile. As the Examiner understand the invention the two layers are connected by the profile to enclose a space which can be evacuated (page 3, line 20 of specification) and presumable is evacuated by some kind of pump. This is how the Examiner has interpreted the claim. A more literal interpretation of the claim language would have the two layers and profile enclosing a space that was evacuated before the space is enclosed, however, there is no support for such a method of assembly in the disclosure. Since Comstock and the applicant evacuate the space after assembly Comstock anticipates the device as claimed. It seems to the Examiner that Comstock expresses the desirability of forming a sealed container that holds a vacuum but has not achieved a vacuum-tight manner of connecting the two layers with a profile. However, it is apparent that Babbitt does not suffer this deficiency.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

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to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Comstock in view of Babbitt. Comstock is cited showing an evacuated metal housing with a flange tube. Comstock fails to show a tube entirely of steel with flanges having a thickness corresponding to the thickness of the outer covers. Babbitt is cited showing an evacuated insulating container, which is disclosed as commonly made of metal, with tubes having flanges which correspond to the thickness of the covers and are connected by welding for the purpose of providing a vacuum insulating container. Babbitt is aware that similar containers are constructed of metal. Apparently the state of the art in welding had advanced by 1934 to the point where a vacuum tight container was easily formed because Babbitt is not concerned with leakage and the pump is disconnected the container is evacuated. Since the references are from the same field of endeavor the purpose of Babbitt would have been obvious in the pertinent art of Comstock and it would have been obvious for one having an ordinary skill in the art to have modified Comstock making the container from metal, providing tubes having

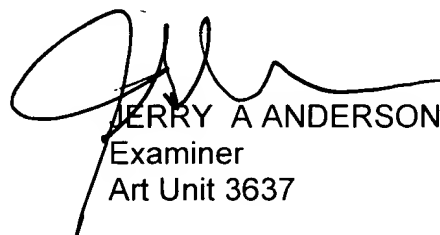
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flanges which correspond to the thickness of the covers and using the advanced welding to connect the parts in a vacuum tight manner for the purpose of providing a vacuum insulating unit in view of Babbitt

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JERRY A ANDERSON whose telephone number is 703 308 2202. The examiner can normally be reached on 9:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on 703 308 2486. The fax phone numbers for the organization where this application or proceeding is assigned are 703 305 3597 for regular communications and 703 305 3597 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 2168.



JERRY A ANDERSON
Examiner
Art Unit 3637

gaa
June 17, 2002